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| <div style="text-align: center;">  </div> <div style="text-align: center;"> INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) </div> | ATTY. DOCKET NO. 44046 96.3.9 | SERIAL NO. 09/868,542 |
| | APPLICANT Cardinal IG Company | |
| | FILING 06 August 1999 | GROUP 1753 |

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| SHV | 3,852,098 | 03 Dec 1974 | Bloss et al. | 117 | 106 B | |
| SHV | 3,970,037 | 20 Jul 1976 | Sopko | 118 | 48 | |
| SHV | 4,212,663 | 15 Jul 1980 | Aslami | 65 | 144 | |
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| SHV | 4,351,861 | 28 Sep 1982 | Henery | 427 | 255.1 | |
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| SHV | 4,571,350 | 18 Feb 1986 | Parker et al. | 427 | 109 | |
| SHV | 5,090,985 | 25 Feb 1992 | Soubeyrand et al. | 65 | 60.52 | |
| SHV | 5,211,759 | 18 May 1993 | Zimmerman et al. | 118 | 723 | |
| SHV | 5,302,449 | 12 Apr 1994 | Eby et al. | 428 | 336 | |

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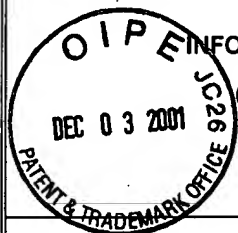
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| | | | | | | YES | NO |
| SHV | EP 0 820 967 A | 23 Jul 1997 | EP | C03C | 17/34 | | |
| SHV | EP 0 689 962 A | 20 Jun 1995 | EP | B60 B | 1/06 | | |
| SHV | 01 014 129 | 08 Jul 1987 | JP | C03C | 17/34 | | |
| SHV | EP 0 637 572 | 05 Aug 1994 | EP | C03C | 17/34 | | |
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Cardinal IG Company

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| SHV | 5,645,699 | 8 Jul 1997 | Sieck | 204 | 192.12 | |
| SHV | 5,698,262 | 16 Dec 1997 | Soubeyrand et al. | 427 | 255.3 | |
| SHV | 5,733,660 | 31 Mar 1998 | Makita et al. | 428 | 426 | |
| SHV | 5,762,674 | 09 Jun 1998 | Maltby, Jr. et al. | 65 | 60.1 | |
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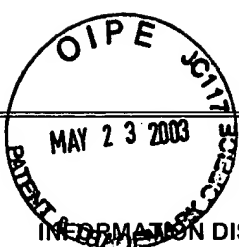
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| SHV | DE 43 13 284 | 27 Oct 1994 | DE | H01J | 37/32 | | |
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| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | ATTY. DOCKET NO. 44046.203.96.3.9 | SERIAL NO. 09/868,542 |
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| SAV | 2,808,351 | 31 Oct 1952 | Colbert et al. | 117 | 211 | |
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| SAV | 3,840,451 | 08 Oct 1974 | Golyanov et al. | 204 | 192 | |
| SAV | 3,844,924 | 29 Oct 1974 | Cunningham et al. | 204 | 288 | |
| SAV | 3,925,182 | 09 Dec 1975 | Carmichael et al. | 204 | 192 | |
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| | | | | | | YES | NO |
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| SAV | WO 97/11916 | 03 Apr 1997 | PCT | C03B | 18/00 | | |
| SAV | WO 97/42357 | 13 Nov 1997 | PCT | C03C | 16/00 | | |
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| SAV | Veersamy, et al., "Optical and Electronic Properties of Amorphous Diamond." <u>Diamond and Related Materials</u> , Vol. 2 (1993), pp 782-787. |
| SAV | "Surface Hardening of Ceramic and Glass Materials, " <u>IBM Technical Disclosure Bulletin</u> , Vol. 36, Issue 1 (January 1993), pg 225. |

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| SHV | 4,194,022 | 18 Mar 1980 | Gillery | 427 | 109 | | |
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| SHV | 4,214,014 | 22 Jul 1980 | Hofer et al. | 427 | 40 | | |
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| SHV | 4,466,258 | 21 Aug 1984 | Sando et al. | 68 | 5C | | |
| SHV | 4,485,146 | 27 Nov 1984 | Mizuhashi et al. | 428 | 428 | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| SHV | WO 96/25534 | 22 Aug 1996 | PCT | C23C | 14/34 | | |
| SHV | JP 3-122274 | 24 May 1991 | JP | C23C | 14/40 | x | |
| SHV | JP 3-187039 A | 15 Aug 1991 | JP | G11B | 11/10 | | |
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| SHV | JP 7-508491 | 21 Sep 1995 | JP | C03C | 17/14 | | |
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| SHV | 4,661,409 | 28 Apr 1987 | Kieser et al. | 428 | 408 | | |
| SHV | 4,704,339 | 03 Nov 1987 | Green et al. | 428 | 689 | | |
| SHV | 4,713,311 | 15 Dec 1987 | Senske et al. | 430 | 127 | | |
| SHV | 4,717,622 | 05 Jan 1988 | Kurokawa et al. | 428 | 408 | | |
| SHV | 4,725,345 | 16 Feb 1988 | Sakamoto et al. | 204 | 192.31 | | |
| SHV | 4,728,529 | 01 Mar 1988 | Etz Korn et al. | 427 | 39 | | |
| SHV | 4,732,454 | 22 Mar 1988 | Saito et al. | 350 | 164 | | |
| SHV | 4,737,252 | 12 Apr 1988 | Hoffman | 204 | 192.16 | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| SHV | JP 7-149545 | 13 Jun 1995 | JP | 603C | 1734 | | |
| SHV | JP 7-315889 | 05 Dec 1995 | JP | 603C | 2706 | | |

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| | | | | APPLICANT Krisko et al. | | | |
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| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE | |
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| SHV | 4,859,493 | 22 Aug 1989 | Lemelson | 427 | 457.4 | | |
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| SHV | 4,894,133 | 16 Jan 1990 | Hedgcoth | 204 | 192.15 | | |
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| SHV | 4,919,778 | 24 Apr 1990 | Dietrich et al. | 204 | 192.27 | | |
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| SHV | 4,981,568 | 01 Jan 1991 | Taranko et al. | 204 | 192.31 | | |
| | 5,032,421 | 16 Jul 1991 | Sarma et al. | | | | |
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| | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
| | | | | | | YES | NO |
| SHV | JP 7-315874 | 05 Dec 1995 | JP | C03C | 17/06 | | |
| SHV | JP 8-109043 | 30 Apr 1996 | JP | C03C | 17/34 | | |
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| EXAMINER | DATE CONSIDERED March 8, 2003 |
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| | APPLICANT Krisko et al. | |
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| SHV | 5,106,671 | 21 Apr 1992 | Amberger et al. | 428 | 215 | |
| SHV | 5,139,633 | 18 Aug 1992 | Kashida et al. | 204 | 192.15 | |
| SHV | 5,171,414 | 15 Dec 1992 | Amberger et al. | 204 | 192.26 | |
| SHV | 5,190,807 | 02 Mar 1993 | Kimock et al. | 428 | 216 | |
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| | | | | | | YES | NO |
| SHV | JP 10-36144 | 10 Feb 1998 | JP | C03C | 17/34 | | |
| SHV | JP 10-048805 A | 20 Feb 1998 | JP | G03F | V08 | | |
| SHV | JP 11-095014 | 03 Dec 1998 | JP | G02B | S02 | | |
| SHV | EP 0 515 847 B1 | 22 Feb 1995 | EP | G02B | V10 | | |
| SHV | EP 0 470 379 A | 12 Feb 1992 | EP | H01J | 37/34 | | |
| SHV | EP 0 328 257 | 16 Aug 1989 | EP | C23C | 14/56 | | |

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| SHV | 5,284,539 | 08 Feb 1994 | McKernan et al. | 156 | 154 | | |
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| SHV | 5,318,830 | 07 Jun 1994 | Takamatsu et al. | 428 | 249 | | |
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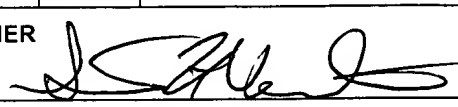
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| SAV | 5,558,751 | 24 Sep 1996 | Mahler et al. | 204 | 78.26 | | |
| SAV | 5,569,501 | 29 Oct 1996 | Bailey et al. | 427 | 571.20 | | |
| SAV | 5,594,585 | 14 Jan 1997 | Komatsu | 359 | 512 | | |
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| SAV | 5,624,760 | 29 Apr 1997 | Collins et al. | 428 | 426 | | |
| SAV | 5,624,423 | 01 Jul 1997 29 Apr 1997 | Kimock et al. | 604 | 385.1 | | |
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